

Part Number: 2631102002
Frequency Range: Lower & Broadband Frequencies 1-300 MHz (31 material)
Description: CS26/13/29-31 31 ROUND CABLE CORE
Application: Suppression Components
Where Used: Cable Component
Part Type: Round Cable EMI Suppression Cores
Preferred Part: ✓

Part Type Information

Mechanical Specifications

Weight: 55.00 (g)
[View Chart Legend](#)

Dim	mm	mm tol	nominal inch	inch misc.	Land Patterns					Winding Information			
					V	W (ref)	X	Y	Z	Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
A	25.90	±0.75	1.020	-	-	-	-	-	-	-	-	-	-
B	12.80	±0.25	0.505	-	Reel Information					Pkg Size			
C	28.60	±0.80	1.125	-	Tape Width mm	Pitch mm	Parts 7" Reel	Parts 13" Reel	Parts 14" Reel	Connector Plate			
D	-	-	-	-	-	-	-	-	-	# Holes	# Rows		
E	-	-	-	-	Cable Information					-	-		
F	-	-	-	-	Max Diameter		Max Dimension		Solid Equivalent		Flat Cable Cores		
G	-	-	-	-	-		-		-		-		
H	-	-	-	-									
J	-	-	-	-									
K	-	-	-	-									

Electrical Specifications

Typical Impedance (Ω)		Electrical Properties	
1 MHz	31	H(Oe)	.22
5 MHz	79		
10 MHz*	103		
25 MHz*	156		
100 MHz*	260		
250 MHz	280		

Ferrite Material Constants

Specific Heat	0.25 cal/g/°C
Thermal Conductivity	10x10 ⁻³ cal/sec/cm ² /°C
Coefficient of Linear Expansion	8 - 10x10 ⁻⁶ /°C
Tensile Strength	4.9 kgf/mm ²
Compressive Strength	42 kgf/mm ²
Young's Modulus	15x10 ³ kgf/mm ²
Hardness (Knoop)	650
Specific Gravity	≈ 4.7 g/cm ³
The above quoted properties are typical for Fair-Rite MnZn and NiZn ferrites.	

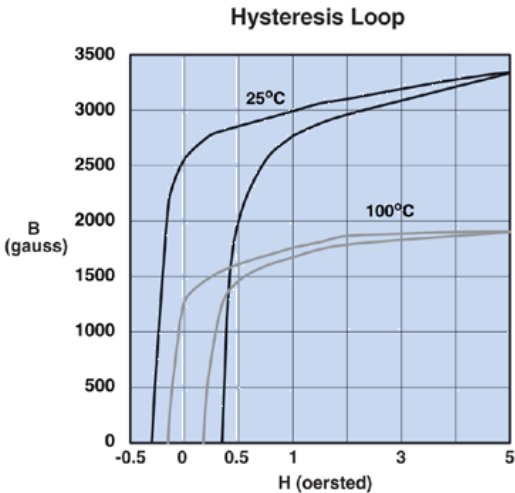
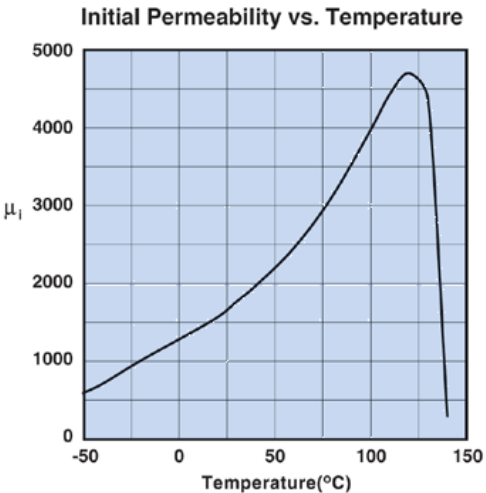
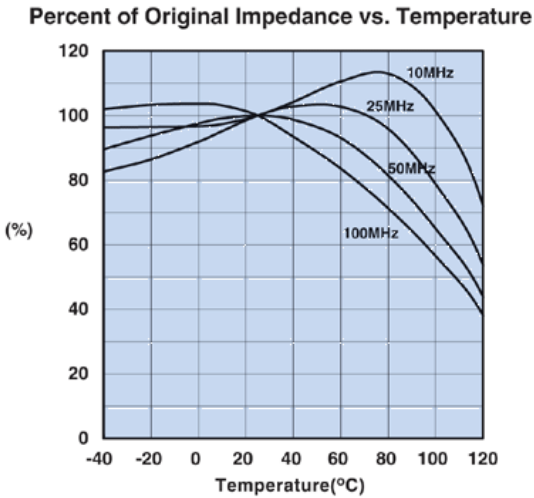
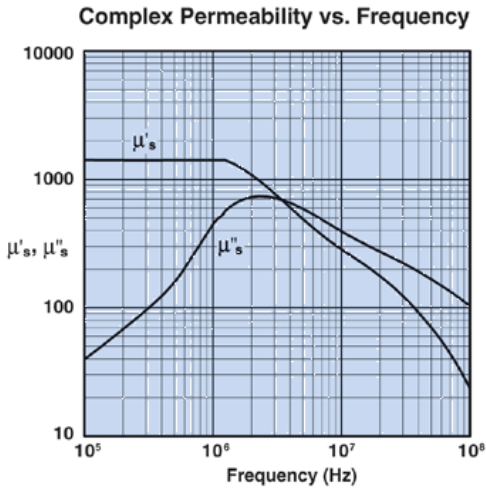
A MnZn ferrite designed specifically for EMI suppression applications from as low as 1 MHz up to 500 MHz. This material does not have the dimensional resonance limitations associated with conventional MnZn ferrite materials.

Round cable EMI suppression cores, round cable snap-its, flat cable EMI suppression cores, and flat cable snap-its are all available in 31 material.

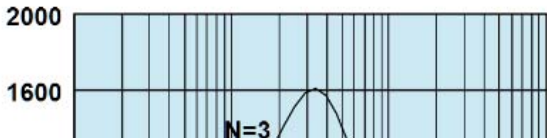
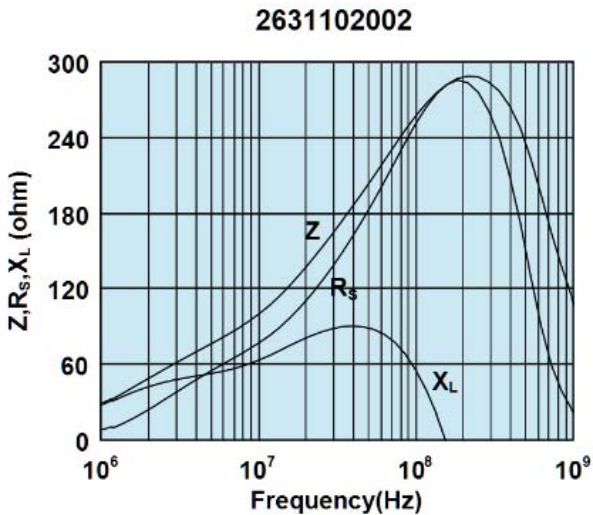
31 Material Specifications:

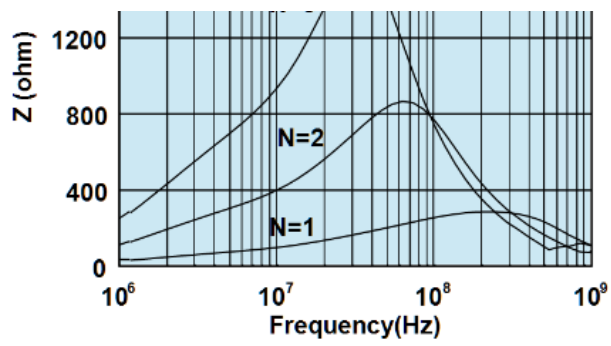
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ _i	1500
Flux Density @ Field Strength	gauss oersted	B H	3400 5
Residual Flux Density	gauss	B _r	2500
Coercive Force	oersted	H _c	0.35
Loss Factor @ Frequency	10 ⁻² MHz	tan δ/μ _i	20 0.1
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.6

Curie Temperature	°C	T _c	>130
Resistivity	Ω cm	ρ	3x10 ⁹



Impedance Curve





Impedance vs. frequency with one, two, and three turns.